EXPRESS MAIL NO. Em 167729 903

IN THE UNITED STATES PATENT AND TRADERERK OFFICE

MAY March 26, 1996

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Ser. I

HONORABLE COMMISSIONER OF PATENTS AND TRADEMARKS Washington, DC 20231

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT BY APPLICANT(S)

U.S. PATENT DOCUMENTS

Examiner <u>Initial</u>	Patent <u>Number</u>	<u>Date</u>	<u>Name</u>	Class/ <u>Subclass</u>	Filing <u>Date</u>	Enclosed
Syr	2,962,372	Nov. 29, 1960	Foos et al.	75-121	Jan. 17, 1958	Yes
Sy	3,658,511	Apr. 25, 1972	Gustison	C22b 51/00	Dec. 22, 1969	Yes
Syr	4,164,417	Aug. 14, 1979	Gustison	G22B-34/24 ; G22C-27/02	Apr. 28, 1978	Yes
A MS	4,309,389	Jan. 5, 1982	Meyer	C01G 33/00, C01G 35/00	Jul. 1, 1980	Yes
SIC	4,446,116	May 1, 1984	Krismer et al.	C22B 34/24; C22B 60/02 -	Mar. 24, 1982	Yes .
LJB.	4,451,438	May 29, 1984	Floeter et al.	C01G 43/00; C01G 33/00; C01G 35/00; C01F 15/00	Sep. 29, 1982	Yes
SIB	4,654,200	Mar. 31, 1987	Nirdosh et al.	-C01E_13/00; -C01F_15/00	Jun. 1, 1984	Yes
<u> </u>	4,663,130	May 5, 1987	Bergman et al.	-C01G-31/00	Nov. 14, 1983	Yes
	4,673,554	Jun. 16, 1987	Niwa et al.	C01C-35/00-	Dec. 13, 1985	Yes
A A B	4,695,290	Sep. 22, 1987	Kindig et al.	C10L-9/02; C10L-9/06	Jun. 24, 1985	Yes
Syl	4,743,271	May 10, 1988	Kindig et al.	C10L 9/02; -C10L 9/06-	May 2, 1984	Yes
SB	4,753,033	Jun. 28, 1988	Kindig	C10L 9/00	Feb. 5, 1987	Yes
4973	5,023,059	Jun. 11, 1991	Bielecki et al.	B01D-11/00-	Nov. 2, 1988	Yes
1000	5,209,910	May 11, 1993	Bludssus et al.	C22B 34/20; C01G 33/00 ; C01G 35/00-	Jun. 24, 1991	Yes
AYB	5,273,725	Dec. 28, 1993	Carlson	0010 58/00	May 29, 1992	Yes
XXII.	5,384,105	Jan. 24, 1995	Carlson	G01G-33/00	Nov. 15, 1993	Yes

Examiner **Patent** Initial Number

<u>Date</u>

Aug. 1, 1995

Name

Class/ **Subclass** ESS MAIL NO. <u>EM /67729</u> Filing Date

Enclosed

C01G 56/00, -C01G-57/00Jul. 10, 1992

Yes

FOREIGN PATENT DOCUMENTS

Examiner Initial

Document

5,437,848

Number

<u>Date</u> Country

Hard

Class/ <u>Subclass</u> Translation

<u>Yes</u> No

Enclosed

OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages, Etc.)

Evernines		(moldding Addition, Title, Date, Fertilient Pages, Ltc.)	
Examiner Initial		<u>Document</u>	Enclosed
Sp.	1.	Solvent Extraction Principles and Applications to Process Metallurgy, Part II., no date.	Yes
-AB	2.	Radioactive Waste Disposal in the Shiprock-Type Uranium Milling Flowsheet by K.E. Tame, E.G. Valdez, and J.B. Rosenbaum, no	Yes date.
A B	3.	Radium Removal from Uranium Ores and Mill Tailings by S.R. Borrowman and P.T. Brooks, no date.	Yes
z Mr	4.	The Purification of Inorganic Acids by the Amine Liquid Ion Exchange Process by D.W. Agers, J.E. House, J.L. Drobnick and C.J. Lewis, No date.	Yes
AB .	5.	Scandium Recovery From a Tantalum Waste Residue: A Status Report by D.D. Harbuck and G.R. Palmer, U.S. Bureau of Mines, 1991, M.	Yes north,
SJB	6.	Evaluation of Scandium Oxide Production from Tantalum Processing Waste, August, 1993, edited by G. Kyle Green.	Yes
SJB-	7.	Scandium Saves Aluminum, Rare-earth Information Center Insight, Ames Laboratory Institute for Physical Research and Technology, Vol. 6, No. 4, April 1, 1993.	Yes
spe	8.	Co-extraction of uranium and thorium, by G.M. Ritcey and B.H. Lucas, April, 1972, Journal of Metals, pages 39-44.	Yes

EXAMINER

DATE CONSIDERED

9-16-96

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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Applicant :
Ser. No. ROO
Fil. Pare JUN :
Example of Art Unit

Hard, Robert A. 08/623,852 March 26, 1996

PROCESS FOR RECOVERING METAL VALUES

Unknown Unknown

HONORABLE COMMISSIONER OF PATENTS
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FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT BY APPLICANT(S)

U.S. PATENT DOCUMENTS

Examiner Initial	Patent Number	Date	Name_	Class/ Subclass	Filing <u>Date</u>	Enclosed	
8913	2,767,047	Oct. 16, 1956	Wilhelm et al.	23-23	Oct. 20, 1953	Yes	
LYB	3,117,833	Jan. 14, 1964	Pierret	23-19	Sept. 25, 1958	Yes	
Sys	3,712,939	Jan. 23, 1973	Capps et al.	C22B-59/00	Mar. 29, 1971	Yes	
AB.	4,234,555	Nov. 18, 1980	Pulley et al.	C21F-9/12 ; C02F-1/62	Jun. 9, 1978	Yes	
Sgr	4,155,982	May 22, 1979	Hunkin et al.	C01G-43/00	Oct. 9, 1974	Yes	
SYL	4,233,278	Nov. 11, 1980	Korchnak	-C01B-25/22 -	Mar. 24, 1978	Yes	
Sygri	4,278,640	Jul. 14, 1981	Allen et al.	C01B 25/234	Mar. 19, 1979	Yes	
A B	4,293,528	Oct. 6, 1981	Paul	C01G-43/01	Nov. 19, 1979	Yes	
Syrs	4,320,093	Mar. 16, 1982	Volesky et al.	C01C-43/00-	Nov. 13, 1979	Yes	
1913	4,412,861	Nov. 1, 1983	Kreuzmann	C22B-60/02-	Oct. 27, 1982	Yes	
2713	4,446,115	May 1, 1984	Endo et al.	-C01G-35/00 -	Mar. 2, 1982	Yes	
- Sys	4,477,416	Oct. 16, 1984	Goddard	C01G-31/00; C01G-31/02	Sep. 27, 1982	Yes	
SJB	4,536,034	Aug. 20, 1985	Otto, Jr. et al.	E21B-43/28-	Apr. 14, 1983	Yes	
SM	4,778,663	Oct. 18, 1988	Rickelton	C01G-43/00 -	Aug. 27, 1987	Yes	
spo	4,923,507	May 8, 1990	Silva, Filho	-C22B 1/00 -	May 19, 1988	Yes	
FOREIGN PATENT DOCUMENTS							

Examiner	Document			Class/	Translation		
<u>Initial</u>	Number	<u>Date</u>	Country	<u>Subclass</u>	<u>Yes</u>	No_	Enclosed

OTHER DOCUMENTS PRESS MAIL NO. Em/6773002)

Examiner Initial

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Document

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DATE CONSIDERED

9-16-96

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